

ABSTRACT OF THE DISCLOSURE

There are provided an electronic component for high frequency power amplification provided with a high-sensitivity output power detection circuit which is immune to the influence of changes in the use environment thereof, free of an output mismatch, small in size, and low in insertion loss and a wireless communication system using the electronic component. There are provided an output detection transistor which receives, at a control terminal, a voltage extracted from the intermediate node of an impedance matching circuit provided between the final-stage power amplification transistor of a high-frequency power amplification circuit and an output terminal thereof via a capacitor element and allows a current proportional to an output power to flow, a bias generation circuit for giving an operating point to the control terminal of the transistor, a current mirror circuit for transferring the current flowing in the output detection transistor, and a current-to-voltage conversion transistor for converting the transferred current to a voltage.